

For Research Use Only

# Cytokeratin 19 Monoclonal antibody



Catalog Number: 60187-1-Ig

Featured Product

4 Publications

## Basic Information

<b>Catalog Number:</b> 60187-1-Ig	<b>GenBank Accession Number:</b> BC002539	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3880	<b>CloneNo.:</b> 3G1E4
<b>Source:</b> Mouse	<b>Full Name:</b> keratin 19	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:1000-1:51200 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 44 kDa	
<b>Immunogen Catalog Number:</b> AG7407	<b>Observed MW:</b> 48 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : MCF-7 cells, HeLa cells

IHC : human colon tissue, human oesophagus cancer tissue, human breast cancer tissue, human thyroid cancer tissue, human lung cancer tissue, human stomach cancer tissue

IF : human breast cancer tissue,

## Background Information

The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells. KRT19, one of type I keratins, is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. Due to its high sensitivity, KRT19 is the most used marker for detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qiu-Zhong Pan	25267273	Stem Cells	WB
Haibo Zhang	34671938	Reprod Sci	IHC
Yuecheng Guo	34662704	Biochim Biophys Acta Mol Basis Dis	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

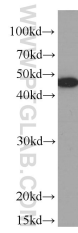
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

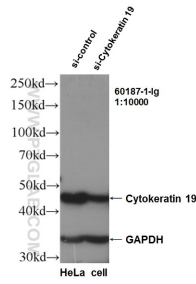
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

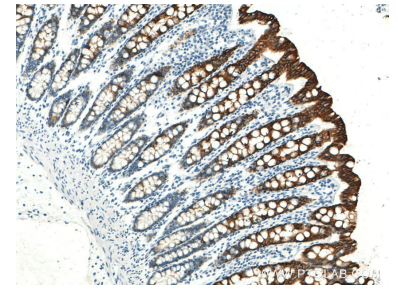
## Selected Validation Data



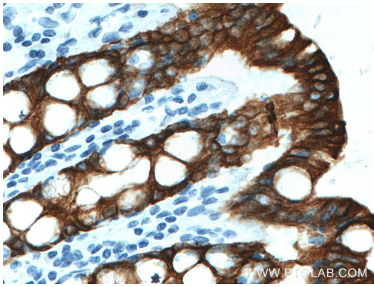
MCF-7 cells were subjected to SDS PAGE followed by western blot with 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



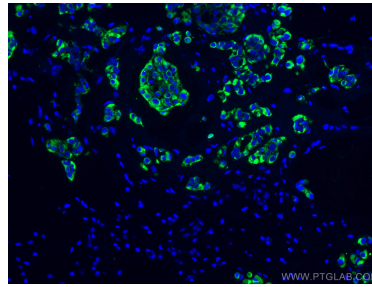
WB result of KRT19 antibody (60187-1-Ig, 1:10,000) with si-Control and si-KRT19 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using Cytokeratin 19 antibody (60187-1-Ig, Clone: 3G1E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).